

10/537430
JC17 Rec'd PCT/PTO 02 JUN 2005

In re the application of:
Tim Neil, Scott Neil and Steve Grenier
For: WIRELESS COMMUNICATION DEVICE USE OF APPLICATION
SERVER APPLICATIONS

- Page 2 -

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A method of enabling use of an application server application by a wireless communication device comprising, at a transaction server:

on receipt of a given message from said wireless communication device for said application on said application server, pushing said given message, and each message queued on a queue for said application, toward a destination for said application of said application server.

2. (original) The method of claim 1 further comprising queuing said given message on said queue prior to pushing said given message, and wherein said pushing comprises, for each message on said queue,

dequeuing said each message from said queue and pushing said each message.

3. (original) The method of claim 2 further comprising, prior to said dequeuing and pushing, acquiring a lock for said destination on said application server, said lock preventing other use of said destination.

4. (currently amended) The method of claim 2 ~~or claim 3~~ further comprising, after said dequeuing said each message from said queue and pushing said each message, releasing said lock for said destination on said application server.

5. (currently amended) The method of ~~any one of claims~~ claim 2 to 4 wherein messages on said queue are queued on a first in first out (FIFO) basis and wherein a trailing message in said queue

In re the application of:
Tim Neil, Scott Neil and Steve Grenier
For: WIRELESS COMMUNICATION DEVICE USE OF APPLICATION
SERVER APPLICATIONS

- Page 3 -

is not pushed until a message in said queue immediately preceding said trailing message is considered to have successfully reached said destination.

6. (original) The method of claim 5 further comprising:

if a particular message pushed toward said destination does not successfully reach said destination, ceasing said dequeuing and pushing and re-queuing said particular message on said queue.

7. (original) The method of claim 6 further comprising, on dequeuing said each message and prior to pushing said each message, logging said event and wherein said re-queuing said particular message comprises utilizing said log to identify messages to re-queue.

8. (currently amended) The method of ~~any one of claims~~ claim 1 ~~to 7~~ further comprising:

timing a retry interval and, on expiry of said retry interval, for each message on said queue:

dequeuing said each message from said queue and pushing said each message toward said destination for said application of said application server.

9. (currently amended) The method of ~~any one of claims~~ claim 1 ~~to 8~~ wherein said destination is a Component Object Model (COM) interface, a Distributed Component Object Model (DCOM) interface, a Simple Object Access Protocol (SOAP) interface, a .NET interface, or a .NETRemoting interface.

10. (currently amended) The method of claim 3 ~~or claim 4~~ wherein said acquiring a lock comprises sending a lock request to a remote lock server.

11. (currently amended) The method of ~~any one of claims~~ claim 1 ~~to 10~~ wherein said each message is an extensible markup language (XML) package.

In re the application of:
Tim Neil, Scott Neil and Steve Grenier
For: WIRELESS COMMUNICATION DEVICE USE OF APPLICATION
SERVER APPLICATIONS

- Page 4 -

12. (currently amended) The method of ~~any one of claims~~ claim 2 to 7 further comprising:

receiving a polling request from said application server, said polling request establishing a transaction; and

dequeuing said each message from said queue and sending said each message toward said destination for said application of said application server in the context of said transaction.

13. (currently amended) The method of ~~any one of claims~~ claim 1 to 12 further comprising:

receiving from said application server a message for said mobile communication device; and

forwarding said application server message to said wireless communication device.

14. (currently amended) The method of ~~any one of claims~~ claim 1 to 14 wherein said pushing said each message toward said destination for said application of said application server comprising sending said each message to a universal resource locator (URL).

15. (original) A method, at a transaction server, of enabling use of an application on an application server at a mobile communication device, comprising:

receiving from said mobile a mobile data containing package;

pushing said mobile data containing package to said application server;

receiving from said application server a server data containing package;

forwarding said server data containing package to said mobile.

16. (original) A transaction server enabling use of at least one application server application by a wireless communication device, comprising:

a memory storing at least one queue, with one queue being provided for each of said at least one application on said application server;

a processor for, on receipt of a given message from said wireless communication device

In re the application of:
Tim Neil, Scott Neil and Steve Grenier
For: WIRELESS COMMUNICATION DEVICE USE OF APPLICATION
SERVER APPLICATIONS

- Page 5 -

for a given application on said application server:

pushing said given message, and each message queued on a queue for said application, toward a destination for said application of said application server.

17. (original) The transaction server of claim 16 wherein said processor is further for queuing said given message on said queue prior to pushing said given message, and wherein said pushing by said processor comprises, for each message on said queue, dequeuing said each message from said queue and pushing said each message.

18. (original) The transaction server of claim 16 wherein said processor is further for, prior to said dequeuing and pushing, acquiring a lock for said destination on said application server, said lock preventing other use of said destination.

19. (currently amended) The transaction server of claim 17 ~~or claim 18~~ wherein messages on each of said at least one queue are queued on a first in first out basis and wherein said processor is for refraining from pushing a trailing message in said queue until said processor considers a message in said queue immediately preceding said trailing message has successfully reached said destination.

20. (original) The transaction server of claim 19 wherein said processor is further for, if a given message pushed from said given queue toward said destination does not successfully reach said destination, ceasing said dequeuing and pushing and re-queuing said given message on said given queue.

21. (original) A computer readable medium containing computer executable instructions for enabling use of an application server application by a wireless communication device, said computer executable instructions, when controlling a processor of a transaction server, causing said transaction server to:

In re the application of:

Tim Neil, Scott Neil and Steve Grenier

For: WIRELESS COMMUNICATION DEVICE USE OF APPLICATION
SERVER APPLICATIONS

- Page 6 -

on receipt of a given message from said wireless communication device for said application on said application server, push said given message, and each message queued on a queue for said application, toward a destination for said application of said application server.